Pipeline Programs	Educator Support
GEAR UP Kentucky. A \$40 million, six-year program to	
prepare low-income students for college (e.g, all students	Provides teacher PD to use EPAS assessments and
algebra-ready by 8th grade). Math/science focus	design interventions/promote college for low income
(http://cpe.ky.gov/policies/academicinit/GearUp/)	students.
Project Lead the Way. Supports 60+ middle and high	
schools creating a rigorours, lab-based pre-engineering	UK is a PTLW affiliate university working with all of
curriculum. Thirteen districts are in the initial pilot.	postsecondary to provide PD for teachers, support for
(http://cpe.ky.gov; www.pltw.org)	counselors in implementing the program.
(, , , , , , , , , , , , , , , , , ,	and the property of the proper
Kentucky Early Math Testing Program. An online math	
assessment for early high school students with tutorials	Provides PD for teachers to use the test and develop
to improve college math readiness. (www.mathclass.org)	interventions.
www.macneas.org	interventions.
Go Higher Kentucky Web Portal and	Includes a "counselor center" to assist counselors in
KnowHowToGoKY.org Web site. Everything a	tracking student progress and a "mentor" component to
parent/student needs to know about how to prepare for,	link students to mentors. Also linked to site where
The state of the s	
pay for, and apply to college. (www.gohigherky.org)	students complete their Individual Learning Plan.
Kentucky Academy of Math and Science Located at	
Kentucky Academy of Math and Science. Located at	
Western Kentucky University, and early admissions	
program for high school students gifted in math and	
science to foster more college graduates in the STEM	
disciplines. (www.wku.edu/academy)	
	The Council on Destroyandam, Education is working with
ACT/FDAC in Kontrolay Chata fronded accompanies to	The Council on Postsecondary Education is working with
ACT/EPAS in Kentucky. State funded assessments to	P-12 on, and is funding efforts to, develop teacher PD
begin in middle school identifying student needs to be on	
track for college readiness in math, science, etc.	options for students based on assessment results.
Professional Science Msters. The CPE is working with	
Kentucky universities, the Sloan Foundation, and the	
Council of Graduate Schools to create interdisciplinary	
programs in cooperation with industry to meet the	
demand for high level STEM professionals with expertise	
in STEM, business, and related areas.	
(http://www.sciencemasters.com/)	
<u>CPE STEM Task Force</u> . Produced recommendations to	
improve the STEM pipeline and promote STEM jobs in	Includes proposals to attract more teachers in STEM
Kentukcy. Work groups are now developing specific	fields and changes in teacher preparation and PD to
strategies and funding proposals to implement the	improve education practice in STEM disciplines at the P-
recommendations. (http://cpe.ky.gov)	12 and postsecondary levels.

Consider Kontrole la Futura CDE Develona antal	
Securing Kentucky's Future: CPE Developmental	
Education Task Force. Produced six recommendations	
designed to reduce the number of students entering	Include proposels to revise exiteria for accordination of
college underprepared and increase the success of	Include proposals to revise criteria for accreditation of
students who are admitted as underprepared. Sets more	teacher preparation programs and improve teacher PD
realistic statwide college readiness standards.	to enhance P-12 teachers' ability to help students reach
(http://cpe.ky.gov/committees/develop_ed)	college readiness benchmarks.
Kentucky Space Program. An internationally-recognized	
program for college engineering students, allowing	
application of skills to develop and launch micro-satelites	
that can transmit programs to Kentucky schools.	
(www.kysat.com)	
Academic Competitiveness and Smart Grants. Federal	
grant program that provides significant additional	
financial aid to Pell-eligible students who complete new	
rigorous Kentucky high school requirements and major in	
STEM disciplines in college. Provided \$5 million in	
additional scholarships to low-income Knetucky students	
in its first year.	
KHEAA Teacher Scholarship Program and Best in Class	
Loan Forgiveness Program. Provides significant	
scholarships and forgivable loans to low-income high	
potential students pursuing teaching at selected KCTCS	
and university programs. (www.khea.com;	
www.studentloanpeople.com)	
Kentucky Principals' Academy. CPE has awarded UK and	
UofL funding to jointly lead in development and lauch of	
the Kentucky Principals' Academy in summer 2008. The	
academy will provide world-class leadership education to	
a cohort of current and aspiring principals competitively	
selected as Academy Fellows each year.	
(http://cpe.ky.gov)	
Improving Educator Quality Grants. The CPE allocates \$1	
million in competitive grants each year to support	
scaleable PD models developed between postsecondary	
and P-12 faculty in critical subject areas, including STEM.	
(http://cpe.ky.gov)	
(intrp.//cpc.ky.gov)	
<u>Career Pathways Initiative</u> . Partnerships between the	
community college system and high schools, creating	
seamless transitions in targeted career areas (e.g., STEM	
related and health). New pathways to the baccalaureate	
degree are being created as well. (www.kctcs.edu)	
debice are being created as well. (www.ketes.edu)	1

Advance Kentucky. Statewide effort to expand availablilty	
of AP Courses in math, science, and English supported by	
a \$13 million NIMSI grant. (http://www.kstc.com/?665)	
Appalachia Math Science Project. The \$22 million	
National Science Foundation (NSF) Award helps	
strengthen and reform education in math and science in	
pre-K through grade 12 classrooms in participating	
districts in Kentucky, Tennessee and Virginia. The AMSP	
program seeks to demonstrate imporved student	
achievement in mathematics and science through the	
suppourt of partnerships that unite the efforts of	
teachers, administrators, guidance counselors and	
parents in local schools with administrators and faculty at	
area colleges and universities. AMSP's goals are to	
eliminate the achievement gap in science and	
mathematics in the Central Appalachian region and to	
build an integrated elementary, sconedary and higher	
education system in this underserved region.	
KY Girls STEM Collaborative. This project, funded by the	
National Science Foundation, offers the chance for	
schools and organizations committed to informing and	
motivating girls to pursue classes and careers in Science,	
Technology, Engineering, and Math (STEM) to come	
together to share best practices, develop new	
collaborations, and share resources. The successful	
career transition of students and the economic future of	
Kentucky are tied to increased participation of all	
students in careers that rely on STEM skills and	
competencies.	
KY Needs. The mission of the NEED project is to promote	
an energy conscious and educated society by creating	
effective networks of students, educators, business,	
government and community leaders to desigh and deliver	
objective, multi-sided energy education programs.	
NEED's long-term partnership with the US Energy	
Information Administration provides the data and energy	
analysis used to update NEED curriculum materials on an	
annual basis.	

KSU Enterprise Competition. The Kentucky Cabinet for Economic Development's Small Business Services Division will be a proud partner in Kentucky State Univeristy's third annual Youth Entrepreneurship Camp. During the expanded seven day camp, thirty high school students will be challenged to learn what it takes to be a successful entrepreneur. Participants will create a business plan, develop marketing and advertising strategies, and learn about financing a business. Each team will develop and produce a commercial touting their product or service. On the final day of camp, the teams will present their plans and commercials to a panel of judges that includes representatives from local Chambers of Commerce and the small business community. An award will be presented for the best team plan and presentation, and the campers themselves will select an Outstanding Youth Entrepreneur. Each young entrepreneur will recieve special gifts and prizes provided by the camp's sponsors. Kentucky Center for Performance Excellence (KCPE). KCPE is a non-profit agency promoting quality across the Commonwealth. Many of the same group of industry leaders are not familiar with the Baldrige National Quality Program established by Public Law during the Reagan Administration. The U.S. Department of Commerce oversees the public/private partnership to encourage American enterprise to become more competitive with foreign competition through the use of quality. Baldrige is the ONLY QUALITY award presented by the President of the United States.

Kentucky STEM Initiatives